



Perchlorate

Perchlorate is a man-made inorganic salt prepared by oxidation of chlorate (ClO_3^-). It has been used as an oxidizer in fuel for rockets, missiles and fireworks. Due to perchlorate's solubility in water and its mobility through soils, it can be found in groundwater and surface water supplies. Perchlorate, generated from sources in California and Nevada, is entering Arizona via the Colorado River.

In 1996, **Bolin Laboratories** developed a method for perchlorate determination in water and solid materials. Bolin petitioned under Arizona Administrative Code, Chapter 14, Article 6, Section R9-14-607 to add the perchlorate method to its laboratory license. The petition process involved submitting the laboratory's Standard Operating Procedure (SOP), Method Detection Limit (MDL) studies, holding time studies and performance evaluation results from Environmental Resource Associates (ERA). Bolin's petition was approved by the Arizona Department of Health Services (ADHS) in November 1996 and Bolin remains the only Arizona-based laboratory certified to perform Perchlorate analysis. Since approval by ADHS, Bolin has been performing this analysis for municipalities and private industries. Specific requirements for the analysis are listed below:

	<u>Solid</u>	<u>Liquid</u>
Method:	Modified 300.0	Modified 300.0
Cost:	\$95/sample	\$95/sample
Turn-Around Time:	10 days	10 days
Hold Time:	28 days	28 days
Volume Requirement:	100 Grams	1 Liter
Detection Limit:	2.0 mg/kg	4 µg/L

Bolin provides all sample containers, blue ice, and chain of custody records. For more information please contact Lisa Poff in Phoenix @ (602) 942-8220 or Ken Genung in Tucson @ (520) 327-1234.

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